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PROCEEDINGS
OF THE
AMERICAN SOCIETY OF MICROSCOPISTS,
FOURTH ANNUAL MEETING.

The Fourth Annual Meeting of the American Society of Microscopists, held in the Board of Trade Room, City Hall Building, Columbus, Ohio, was called to order at 10:00 A. M. of Tuesday, August 9, 1881, by Hamilton L. Smith, LL.D., of Geneva, N. Y., the retiring President. Prof. Smith then introduced the Vice-President-elect, Geo. E. Blackham, M. D., of Dunkirk, N. Y.; the President-elect, Prof. J. D. Hyatt, of Morrisania, N. Y., being detained from attendance by death in his family.

The session was formally opened with prayer by the Rev. Jno. W. Bailey, D. D., of Columbus, after which Ex-President Edward Orton, of Ohio State University, addressed the Society, welcoming the members in the name of the Tyndall Association and of the citizens of Columbus.

The address of welcome was appropriately responded to by the Chair in behalf of the Society.

The Chair then declared the Fourth Annual Meeting of the Association open for the transaction of the regular business of the session.

On the recommendation of the Executive Committee, the following persons were unanimously elected to membership in the Society.

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|---------------------|---|---|---|---|-------------------------|
| JACOB REDDING, | - | - | - | - | <i>Falmouth, Ind.</i> |
| GEO. C. TAYLOR, | - | - | - | - | <i>Thibodeaux, La.</i> |
| JNO. E. HURLBUT, | - | - | - | - | <i>Kalamazoo, Mich.</i> |
| D. N. KINSMAN, | - | - | - | - | <i>Columbus, Ohio.</i> |
| W. H. BIRCHMORE, | - | - | - | - | <i>Columbus, Ohio.</i> |
| CHAS. H. SACKRIDER, | - | - | - | - | <i>Mason, Mich.</i> |
| EDWIN K. BUTTLES, | - | - | - | - | <i>Shanghai, China.</i> |
| A. B. HERVEY, | - | - | - | - | <i>Taunton, Mass.</i> |
| T. C. MENDENHALL, | - | - | - | - | <i>Columbus, Ohio.</i> |

On motion of Mr. Geo. E. Fell, it was resolved to invite members having instruments for exhibition to place them in the room in which the sessions of the Society are held, a sufficient force of watchmen being provided to ensure the safety of all valuable property.

On motion of Mr. A. H. Tuttle, it was resolved, that a stenographer be employed to report the informal discussion of methods in each afternoon session, such report to be edited by the Secretary before its publication, either in whole or in part, in the volume of Proceedings.

A recess was then taken until 2:30 P. M.

The Society was called to order at 2:30 P. M. by Acting-President Blackham.

The amendments to the Constitution of the Society proposed at the Detroit meeting were read and adopted by a unanimous vote.

On motion, the Executive Committee was instructed to report to the Society such By-Laws as may be necessary or expedient for the furtherance of the business of the Society.

The Society then proceeded to the reading of the following papers:

On the Wholesale Destruction of Acari by a Fungus.—C. M. VORCE.

This paper was discussed by Messrs. Hervey and Fell.

On Forms Found in the Water of Lake Erie.—C. M. VORCE.

This paper was read by title.

On the Occurrence of Gregarina sp. in the American Lobster.—

A. H. TUTTLE

This paper was discussed by Prof. H. L. Smith and Prof. McCalla.

The Chair then announced the recommendation of the Executive Committee, not only for this meeting, but, with the approbation of the Society, for a permanent custom, that the last hour of each day's session be devoted to an informal discussion of methods and apparatus.

This recommendation being adopted, the Society proceeded to such discussion.

Adjourned at 4:30 P. M., to meet at 10 A. M. of Wednesday.

WEDNESDAY, AUGUST 10.

The Society was called to order at 10 A. M., Acting-President Blackham in the chair. The minutes of the previous day's session were read and approved.

On the recommendation of the Executive Committee the following persons were elected to membership in the Society :

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| H. J. DETMERS, | - | - | - | - | <i>Champaign, Ill.</i> |
| C. L. MEES, | - | - | - | - | <i>Columbus, Ohio.</i> |
| HOWARD E. JONES, | - | - | - | - | <i>Circleville, Ohio.</i> |
| A. M. BLEILE, | - | - | - | - | <i>Columbus, Ohio.</i> |
| S. M. MOSGROVE, | - | - | - | - | <i>Urbana, Ohio.</i> |
| HENRY SNYDER, | - | - | - | - | <i>Columbus, Ohio.</i> |
| ADOLPH FEIEL, | - | - | - | - | <i>Columbus, Ohio.</i> |
| E. L. SHURLEY, | - | - | - | - | <i>Detroit, Mich.</i> |

The following persons were nominated by the Executive Committee as candidates for honorary membership:

Mr. FRANK CRISP, Sec. Royal Mic. Society, *London, Eng.*

Mr. CHAS. A. SPENCER, *Geneva, N. Y.*

Mr. JOS. A. SULLIVANT, *Columbus, Ohio.*

The Secretary was instructed, by a unanimous vote, to cast the ballot of the Society for these candidates. They were then declared Honorary Members of the Society.

On motion, the Society proceeded to ballot for members of the Nominating Committee, with the following result:

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| H. L. SMITH, | E. H. GRIFFITH, |
| EDW. BAUSCH, | D. N. KINSMAN, |
| WM. HUMPHREY, | W. H. BULLOCH, |
| A. B. HERVEY. | |

The Society then proceeded to the reading of the following papers:

On Cancer of the Left Auricle, and its Histological Genesis.—

D. N. KINSMAN.

The Binocular Microscope and Stereoscopic Vision.—GEO. E. FELL.

Owing to the lateness of the hour, discussion of these papers was postponed until 3:30 P. M., the Society taking a recess until 2:30 P. M.

The Society was called to order at 2:30 P. M., Acting-President Blackham in the chair.

The Secretary reported from the Executive Committee the following By-Laws, which were unanimously adopted:

1st.—Papers read before the Society shall be acted upon by the Executive Committee at their next session, and the question of their publication in the Proceedings decided, in order that notice of such publication may be given to the authors of papers by the close of the meeting.

2d.—All papers accepted for publication shall be referred to a Publishing Committee, consisting of the Secretary as chairman, with the President and the Treasurer as advisory members.

3d.—The manuscript and drawings of any paper accepted for publication shall be filed with the Secretary by the middle of October next succeeding the meeting at which such paper was read.

4th.—It shall be the duty of the Publishing Committee to issue the volume of Proceedings not later than the first of January next succeeding each meeting.

5th.—An edition of five hundred copies of the Proceedings shall be published each year; in addition to which, each author of papers published shall be furnished with twenty-five copies of his paper (with accompanying plates) gratis, and

as many more, at the cost of publishing, as he may request at the time that his manuscript is sent to the Secretary.

6th.—Papers accepted for publication by the Society must be withheld from publication elsewhere till after the appearance of the Proceedings.

By the request of the Chair, the Treasurer read letters expressing interest in the Society and wishes for its welfare from absent members, viz., Mr. Henry Mills, of Buffalo, N. Y., and Mr. Geo. C. Taylor, of Thibodeaux, La.

The Society then proceeded to the reading of the following papers:

A Study of Blood.—LESTER CURTIS.

This paper was discussed by Messrs. Detmers and Tuttle.

Muscular Contractility.—JACOB REDDING.

This paper was read by title.

An Improved Gas Slide.—E. L. SHURLEY.

The Society then proceeded to the informal discussion of methods and apparatus, the theme for the afternoon being taken from the morning paper, on *The Binocular Microscope and Stereoscopic Vision*, by Mr. FELL.

The author of the paper opened the discussion, which was participated in by Messrs. Smith, Up de Graff, Newcomer, Bulloch, and others.

The Society then adjourned its formal session until 10 A. M. of the following day.

INFORMAL EVENING SESSION.

Owing to the absence of President J. D. Hyatt, no formal session for the reading of the Annual Address was held; but the members of the Society met informally with the members of the Tyndall Association in the City Hall, where an exhibition of microscopes and microscopic objects was given to the citizens of Columbus.

THURSDAY, AUGUST 11.

The Society was called to order at 10 A. M., pursuant to adjournment, Acting-President Blackham in the chair. The minutes of the previous day's session were read and approved.

On the recommendation of the Executive Committee the following persons were elected to membership in the Society.

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| H. N. P. DOLE, | - | - | - | - | - | <i>Columbus, Ohio.</i> |
| SOPHIA E. HOWARD, | - | - | - | - | - | <i>Fairport, N. Y.</i> |
| W. H. TIVY, | - | - | - | - | - | <i>St. Louis, Mo.</i> |
| GEO. W. VICKERS, | - | - | - | - | - | <i>Wapakoneta, Ohio.</i> |
| SEYMOUR DEXTER, | - | - | - | - | - | <i>Elmira, N. Y.</i> |
| D. R. FORD, | - | - | - | - | - | <i>Elmira, N. Y.</i> |

A report was then read by the chairman of the Nominating Committee, presenting the names of the following candidates for office for the ensuing year, with the exception of the Secretary and the Treasurer, who were nominated for three years:

FOR PRESIDENT.

GEO E. BLACKHAM, Dunkirk, N. Y.

FOR VICE-PRESIDENTS.

LESTER CURTIS, Chicago, Ill.,

T. S. UP DE GRAFF.

FOR SECRETARY,

D. S. KELLICOTT, Buffalo, N. Y.

FOR TREASURER.

GEO. E. FELL, Buffalo, N. Y.

FOR EXECUTIVE COMMITTEE.

E. H. GRIFFITH, Fairport, N. Y.,

ROBERT DAYTON, Cleveland, Ohio,

ALBERT MCCALLA, Fairfield, Iowa.

On motion, the Secretary was instructed to cast the ballot of the Society for the whole ticket as nominated. These gentlemen were then declared the elected officers of the Society.

After the formal announcement of the result of the election the President-elect made a brief address to the Society, expressing his thanks and his appreciation of the honor conferred upon him.

The following communication was then read by the Secretary:

COLUMBUS, OHIO, Aug. 11, 1881.

To the American Society of Microscopists:

I am directed by I. N. Miller, Superintendent, of Cincinnati, Ohio, to inform the Society that during its session in Columbus the Western Union Telegraph Company will take pleasure in forwarding free of charge such Society and personal telegrams as the members may wish to send. Regretting that this notice could not have been given sooner, I am,

Respectfully,

GEO. W. COLE, *Manager*.

The courtesy herein extended by the Western Union Telegraph Company was accepted with the thanks of the Society by a unanimous vote.

An invitation to the Society to hold its next annual session at Elmira, N. Y., was presented by T. S. Up de Graff on behalf of the Elmira Microscopical Society.

An invitation was presented by L. R. Sexton, in behalf of the Rochester Academy of Sciences, asking that the next meeting might be held in Rochester, N. Y.

These invitations, in accordance with the Constitution, were referred to the Executive Committee.

The Society then proceeded to the reading of the following papers:

Notes on the Innervation of the Lungs.—A. M. BLEILE.

This paper was discussed by Messrs Blackham and Tuttle.

Notes on Lerneocera Tortua.—D. S. KELLICOTT.

This paper was read by title.

Should Homogeneous-Immersion Objectives be made Adjustable or Non-Adjustable?—GEO. E. BLACKHAM.

This paper was discussed at some length by Messrs. Detmers, Gleason, Up de Graff, Walmsley and Smith.

On motion, the Society took a recess until 2:30 P. M.

The Society was called to order at 2:30 P. M., Acting-President Blackham in the chair.

The Executive Committee elected at the morning session announced that the next session would be held at Elmira, N. Y., in August, 1882, the exact date to be announced later.

A motion of E. H. Griffith was adopted by the Society, expressing the thanks of the Society to the Rochester Academy of Sciences for the invitation to hold the next meeting in their city, and the hope that their hospitality may be enjoyed at some future time.

An informal invitation from the Illinois State Microscopical Society to hold the meeting of 1883 in the city of Chicago was presented by W. H. Bulloch.

The following resolution, which was unanimously adopted, was presented by H. L. Smith:

The American Society of Microscopists now in session in Columbus, Ohio, desires to put on record an expression of sincere regret for the necessary absence of the President, J. D. Hyatt, of Morrisania, N. Y., and while requesting him to furnish for the annual volume a copy of the address that he had prepared for the present meeting, would also tender to him and his family an expression of profound sympathy with them in their recent affliction; and the Society hereby direct that a copy of this resolution be forwarded to Prof. Hyatt by the Secretary.

On motion of A. H. Tuttle, it was resolved that the committee appointed at the Detroit meeting to report upon the Amplifying Powers of Eye-pieces and the proper corresponding Nomenclature, and to suggest measures leading to uniformity of the latter, be continued, and President-elect Blackham be added to its membership.

Mr. E. H. Griffith renewed his offer of a prize, competition for which shall be open to all members of the Society, subject to the following conditions:

The prize shall be assigned to the author of the best paper on the adulteration of some important article of food or medicine, and its detection by the microscope. The paper shall be accompanied

by permanently mounted slides, illustrating the various points under discussion; all papers and slides to become the property of the Society. All papers and accompanying slides shall be given to the President of the Society on the first day of the next annual meeting, who shall appoint a committee of three to examine the same, and report the name of the successful competitor before the close of the meeting. The names of the competitors shall not be made known to any member of the committee until after the award is made. No award shall be made unless there is more than one competitor.

The report of the Treasurer, showing a balance on hand of \$385.81, was read and accepted.

The Society then proceeded to the informal discussion of instruments and apparatus. New stands and accessories were exhibited by Messrs. Bulloch, Walmsley, Bausch, Sexton and Griffith.

At 4:30 P. M. the minutes of the day were read and approved, and the Society adjourned *sine die*.

Approved:

GEO. E. BLACKHAM,
President.